ELSEVIER

Journal of Magnetism and Magnetic Materials 257 (2003) 407–410

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Author index to volume 257

Abadía, A.R., see Lázaro, F.J. 346
Abbas, T., see Ahmad, Z. 397
Abo El Ata, A.M. and S.M. Attia, Dielectric dispersion of Y-type hexaferrites at low frequencies 165
Abo El Ata, A.M., see Meaz, T.M. 296
Ahmad, Z., A. ul Haq, S.W. Husain, A. Ali and T. Abbas, Influence of Ti content on magnetic and microstructural properties of Fe–28Cr–15Co–3.5Mo permanent magnets 397
Ali, A., see Ahmad, Z. 397
Ali, M., see Gehring, G.A. 15
Allwood, D.A., see Cooke, M.D. 387
Aoki, Y., see Granovsky, A. 306
Atkinson, D., see Cooke, M.D. 387
Attia, S.M., see Abo El Ata, A.M. 165
Attia, S.M., see Meaz, T.M. 296

Baabe, D., see Šepelák, V. 377
Bai, J., Z. Yang, F. Wei, M. Matsumoto and A. Morisako, Nano-composite FePt–Al_2O_3 films for high-density magnetic recording 132
Bakonyi, I., see Kamasa, P. 274
Beaujour, J.-M.L., G.J. Bowden, A.A. Zhukov, B.D. Rainford, P.A.J. de Groot, R.C.C. Ward, M.R. Wells and A.G.M. Jansen, Anisotropic magnetoresistance in an epitaxial (1 1 0) $DyFe_2$ film: a metastable magnetic state at 100 K 270
Becker, K.D., see Šepelák, V. 377
Bergmann, A., see Westerholt, K. 239
Bhowmik, R.N. and R. Ranganathan, Magnetic study on $Co_{0.2}Zn_{0.8}Fe_{2-x}Ga_xO_4$ ($x = 0$–1) spinel oxide 220
Bica, I., On the mechanisms of iron microspheres formation in argon plasma jet 119
Bocoranda, P., see Woolley, J.C. 87
Bombik, A., B. Leśniewska, J. Mayer and A.W. Pacyna, Crystal structure of solid solutions $REFe_{1-x}(Al\text{ or }Ga)_xO_3$ (RE = Tb, Er, Tm) and the correlation between superexchange interaction Fe^{+3}–O^{-2}–Fe^{+3} linkage angles and Néel temperature 206
Boujelben, W., see Ellouze, M. 319
Bowden, G.J., see Beaujour, J.-M.L. 270
Broto, J.M., see Woolley, J.C. 87
Buzin, A., see Kamasa, P. 274

Cadenas, R., see Woolley, J.C. 87
Cai, J.W., see Dai, B. 190
Chandra, S., see Seetha Lakshmi, L. 195
Chateigner, D., see Morales, M. 258
Chatterjee, J., Y. Haik and C.-J. Chen, Size dependent magnetic properties of iron oxide nanoparticles 113
Cheikhrouhou, A., see Ellouze, M. 319
Chen, C.-J., see Chatterjee, J. 113
Chen, H., C. Lin and D. Dai, Magnetocaloric effect in $(La,R)_{2/3}Ca_{1/3}MnO_3$ (R = Gd, Dy, Tb, Ce) 254
Cheng, B.-P., see Zhang, W.-Y. 403
Chin, T.S., see Panda, R.N. 79
Cooke, M.D., D.A. Allwood, D. Atkinson, G. Xiong, C.C. Faulkner and R.P. Cowburn, Thin single layer materials for device application 387
Cooke, M.D., see Gehring, G.A. 15
Cordeiro, C.E., see Mota, K. 107
Cowburn, R.P., see Cooke, M.D. 387
Cziráki, Á., see Kamasa, P. 274

Dai, B., J.W. Cai and W.Y. Lai, Structural and magnetic properties of NiFe/NiMn bilayers with different seed and cap layers 190
Dai, D., see Chen, H. 254
De Castro, A.R.B. and R.D. Zysler, A Monte Carlo model of the MCD behavior of hematite colloids 51
De Groot, P.A.J., see Beaujour, J.-M.L. 270
Dempsey, N.M., see Hai, N.H. L139
Deng, Y., L. Wang, W. Yang, S. Fu and A. Elaïssari, Preparation of magnetic polymeric particles via inverse microemulsion polymerization process 69
De Sousa, J.R., see Mota, K. 107
Dobromyslov, M.B., see Kuz'menko, A.P. 327
Du, H.-L., see Zhang, W.-Y. 403
Du, Y.W., see Ji, Q.G. 146

Elaïssari, A., see Deng, Y. 69
Ellouze, M., W. Boujelben, A. Cheikhrouhou, H. Fuess and R. Madar, Structure, ferromagnetism and magnetotransport properties in the barium-deficient $Pr_{0.7}Ba_{0.2}\square_{0.1}MnO_3$ manganite oxides 319

Faulkner, C.C., see Cooke, M.D. 387
Filatov, V.N., see Kuz'menko, A.P. 327
Floc'h, M.L., see Mattei, J.-L. 335
Fruchart, D., see Morales, M. 258
Fu, S., see Deng, Y. 69
Fuess, H., see Ellouze, M. 319

0304-8853/03/$ - see front matter
PII: S0304-8853(03)00053-2

Gao, H., X.-Z. Wang and X.-R. Xu, Surface retarded modes of magnetic superlattices with antiferromagnetic coupling 151
Garrell, M.G., A.J. Shih, B.-M. Ma, E. Lara-Curzio and R.O. Scattergood, Mechanical properties of Nylon bonded Nd–Fe–B permanent magnets 32
Gehring, G.A., M. Ali, M.D. Cooke and R. Mattheis, Determination of magnetostriction in thin films using strained substrate techniques 15
Geiersbach, U., see Westerholt, K. 239
Givord, D., see Hai, N.H. L139
Gonzalez, J., see Woolley, J.C. 87
Góra, D. and K. Parliński, Ab initio calculation of magnetization density in La_2NiO_4 235
Granovsky, A., A. Kalitsov, A. Khanikaev, H. Sato and Y. Aoki, Temperature dependence of the extraordinary Hall effect in magnetic granular alloys 306
Gu, B.X., see Ji, Q.G. 146

Hadjipanayis, G.C., see Ren, L. 58
Hai, N.H., N.M. Dempsey, M. Veron, M. Verdier and D. Givord, An original route for the preparation of hard FePt L139
Haik, Y., see Chatterjee, J. 113
Halich, K., see Welter, R. 44
Hankui, E., see Nakamura, T. 158
Haque, S.A., A. Matsuo, Y. Yamamoto and H. Hori, Two phases spin reversal process in Ni/Si/Ni/GaAs (001) 313
Hoffmann, H., see Schmidt, T. 22
Hoffmann, H., see Schneider, M. 1
Hori, H., see Haque, S.A. 313
Husain, S.W., see Ahmad, Z. 397

Itoh, H., H. Yanagihara, K. Suzuki and E. Kita, Coexistence of the uniaxial anisotropy and the antiferromagnetic coupling in Co/Ir(111) superlattices 184

Jansen, A.G.M., see Beaujour, J.-M.L. 270
Ji, Q.G., B.X. Gu, S.L. Tang and Y.W. Du, Effect of magnetic heat-treatment on magnetic properties and microstructure of $Nd_{10}Fe_{84-x}B_6In_x$ ($x=0.1$) nanocomposite 146
Jian, Z.P., see Xiong, C.S. 369
Jiang, J.-S., see Zhang, W.-Y. 403
Justine Joseyphus, R., see Seetha Lakshmi, L. 195

Kalitsov, A., see Granovsky, A. 306
Kamasa, P., A. Buzin, M. Pyda, J. Kovac, Á. Cziráki, A. Lovas and I. Bakonyi, Temperature-modulated thermal and magnetic analysis of amorphous alloys around magnetic and structural phase transitions 274
Kaminskiy, A.V., see Kuz'menko, A.P. 327
Khanikaev, A., see Granovsky, A. 306
Khizroev, S. and D. Litvinov, Parallels between playback in perpendicular and longitudinal recording 126
Kim, C.W. and J.G. Koh, A study of synthesis of NiCuZn-ferrite sintering in low temperature by metal nitrates and its electromagnetic property 355
Kim, D.-W. and D. Kwon, Quantification of the Barkhausen noise method for the evaluation of time-dependent degradation 175
Kita, E., see Itoh, H. 184
Koh, J.G., see Kim, C.W. 355
Kovac, J., see Kamasa, P. 274
Krumeich, F., see Šepelák, V. 377
Kuz'menko, A.P., A.V. Kaminskiy, E.A. Zhukov, V.N. Filatov and M.B. Dobromyslov, Elastically induced mechanism of magnetization reversal in orthoferrites 327
Kwon, D., see Kim, D.-W. 175

Lai, W.Y., see Dai, B. 190
Lamarche, A.-M., see Woolley, J.C. 87
Lamarche, G., see Woolley, J.C. 87
Lara-Curzio, E., see Garrell, M.G. 32
Larrea, A., see Lázaro, F.J. 346
Lázaro, F.J., A. Larrea and A.R. Abadía, Magnetostructural study of iron–dextran 346
Leśniewska, B., see Bombik, A. 206
Li, L., see Qu, W. 284
Li, L., see Wang, C. 100
Lin, C., see Chen, H. 254
Litterst, F.J., see Šepelák, V. 377
Litvinov, D., see Khizroev, S. 126
Lovas, A., see Kamasa, P. 274
Luo, S.J. and K.L. Yao, Ab initio studies of ferromagnetic properties of galvinoxyl 11
Luo, Z.L., see Xiong, C.S. 369

Ma, B.-M., see Garrell, M.G. 32
Madar, R., see Ellouze, M. 319
Matsumoto, M., see Bai, J. 132
Matsuo, A., see Haque, S.A. 313
Mattei, J.-L. and M.L. Floc'h, Percolative behaviour and demagnetizing effects in disordered heterostructures 335
Mattheis, R., see Gehring, G.A. 15
Mayer, J., see Bombik, A. 206
Meaz, T.M., S.M. Attia and A.M. Abo El Ata, Effect of tetravalent titanium ions substitution on the dielectric properties of Co–Zn ferrites 296
Meng, G.N., see Xiong, C.S. 369
Mienert, D., see Šepelák, V. 377
Morales, M., D. Chateigner and D. Fruchart, Texture and magneto-crystalline anisotropy analysis of an oriented $ErMn_4Fe_8C$ powder sample 258
Morisako, A., see Bai, J. 132
Morocoima, M., see Woolley, J.C. 87
Morozkin, A.V., see Welter, R. 44
Mota, K., J.R. De Sousa and C.E. Cordeiro, The random anisotropic Heisenberg antiferromagnet: application to $Fe_pMn_{1-p}F_2$ 107

Nakamura, T. and E. Hankui, Control of high-frequency permeability in polycrystalline (Ba,Co)-Z-type hexagonal ferrite 158
Narayanasamy, A., see Seetha Lakshmi, L. 195
Natarajan, D.V., see Seetha Lakshmi, L. 195

Pacyna, A.W., see Bombik, A. 206
Panda, R.N., J.C. Shih and T.S. Chin, Magnetic properties of nano-crystalline Gd- or Pr-substituted $CoFe_2O_4$ synthesized by the citrate precursor technique 79
Pandian, P., see Seetha Lakshmi, L. 195
Parliński, K., see Góra, D. 235
Parvizi-Majidi, A., see Ren, L. 58
Pereira, A.R. and A.S.T. Pires, Solitons in the presence of a static spin vacancy on a 2D Heisenberg antiferromagnet 290
Pires, A.S.T., see Pereira, A.R. 290
Pyda, M., see Kamasa, P. 274

Qi, X., see Wang, C. 100
Qu, W., X. Wang and L. Li, Preparation and performance of NiCuZn–CO_2Z composite ferrite material 284
Quintero, E., see Woolley, J.C. 87
Quintero, M., see Woolley, J.C. 87

Radhakrishnan, T.S., see Seetha Lakshmi, L. 195
Rainford, B.D., see Beaujour, J.-M.L. 270
Rakoto, H., see Woolley, J.C. 87
Ranganathan, R., see Bhowmik, R.N. 220
Ren, L., G.C. Hadjipanayis and A. Parvizi-Majidi, Fracture toughness and flexural strength of $Sm(Co,Fe,Cu,Zr)_{7-8}$ magnetic alloys 58
Ruiz, J., see Woolley, J.C. 87

Sankara Sastry, V., see Seetha Lakshmi, L. 195
Sato, H., see Granovsky, A. 306
Scattergood, R.O., see Garrell, M.G. 32
Schmidt, T. and H. Hoffmann, Magnetic properties of Ni/Tb multilayers 22
Schneider, M., H. Hoffmann and J. Zweck, Magnetisation reversal of thin submicron elliptical permalloy elements 1
Schultze, D., see Šepelák, V. 377
Seetha Lakshmi, L., V. Sridharan, D.V. Natarajan, S. Chandra, V. Sankara Sastry, T.S. Radhakrishnan, P. Pandian, R. Justine Joseyphus and A. Narayanasamy, Possible magnetic phase separation in Ru-doped $La_{0.67}Ca_{0.33}MnO_3$ 195
Shen, B.-G., see Zhang, W.-Y. 403
Shih, A.J., see Garrell, M.G. 32
Shih, J.C., see Panda, R.N. 79
Sridharan, V., see Seetha Lakshmi, L. 195
Suzuki, K., see Itoh, H. 184

Tang, S.L., see Ji, Q.G. 146
Tovar, R., see Woolley, J.C. 87

Ul Haq, A., see Ahmad, Z. 397

Verdier, M., see Hai, N.H. L139
Veron, M., see Hai, N.H. L139

Wang, C., L. Li, J. Zhou, X. Qi, Z. Yue and X. Wang, Microstructures and high-frequency magnetic properties of low-temperature sintered Co–Ti substituted barium ferrites 100
Wang, L., see Deng, Y. 69
Wang, X., see Wang, C. 100
Wang, X., see Qu, W. 284
Wang, X.-Z., see Gao, H. 151
Ward, R.C.C., see Beaujour, J.-M.L. 270
Wei, F., see Bai, J. 132
Wells, M.R., see Beaujour, J.-M.L. 270
Welter, R., A.V. Morozkin and K. Halich, A magnetic study of the CeScSi-type RZrSb compounds (R = Gd–Tm). Large coercive field at low temperature in TbZrSb and DyZrSb 44
Westerholt, K., U. Geiersbach and A. Bergmann, Exchange bias in $[Co_2MnGe/Au]_n$, $[Co_2MnGe/Cr]_n$ and $[Co_2MnGe/Cu_2MnAl]_n$ multilayers 239
Woolley, J.C., G. Lamarche, A.-M. Lamarche, H. Rakoto, J.M. Broto, M. Quintero, M. Morocoima, E. Quintero, J. Gonzalez, R. Tovar, R. Cadenas, P. Bocoranda and J. Ruiz, High field magnetic properties of $Ag_2FeGeSe_4$ in the temperature range 2–300 K 87
Wu, X.M., see Zhuge, L.J. 95

Xia, Z.C., see Xiong, C.S. 369
Xiong, C.S., Z.L. Luo, Y.H. Xiong, G.N. Meng, Z.P. Jian, W. Yi, D.G. Zong, Z.C. Xia and S.L. Yuan, The effect of oxygen partial pressure on the electron–magnetic properties of $La_{0.67}Sr_{0.33}MnO_{3-\delta}$ epitaxial films with different orientations 369
Xiong, G., see Cooke, M.D. 387
Xiong, Y.H., see Xiong, C.S. 369
Xu, X.-R., see Gao, H. 151

Yamamoto, Y., see Haque, S.A. 313
Yanagihara, H., see Itoh, H. 184
Yang, W., see Deng, Y. 69
Yang, Y.-C., see Zhang, W.-Y. 403
Yang, Z., see Bai, J. 132
Yao, K.L., see Luo, S.J. 11
Yao, W.G., see Zhuge, L.J. 95
Yi, W., see Xiong, C.S. 369
Yuan, S.L., see Xiong, C.S. 369
Yue, Z., see Wang, C. 100

Zhang, W.-Y., H.-L. Du, J.-S. Jiang, B.-P. Cheng, Y.-C. Yang and B.-G. Shen, High-performance $Pr_2Fe_{14}C$-type magnets prepared by melt spinning 403
Zhou, J., see Wang, C. 100

Zhuge, L.J., W.G. Yao and X.M. Wu, Mechanochemical nitridation by ball milling iron with *m*-phenylene diamine 95
Zhukov, A.A., see Beaujour, J.-M.L. 270
Zhukov, E.A., see Kuz'menko, A.P. 327
Zong, D.G., see Xiong, C.S. 369
Zweck, J., see Schneider, M. 1
Zysler, R.D., see De Castro, A.R.B. 51

ELSEVIER

Journal of Magnetism and Magnetic Materials 257 (2003) 411–412

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Subject index to volume 257

AC conductivity 165
AC susceptibility 346
Acrylamide 69
Activation energy 165, 296
Alloys 58
Amorphous–nanocrystalline transformation 274
Anisotropic magneto-resistance 270
Anisotropy 387
Antenna 158
Antiferromagnetic particles 346
Antiferromagnetics 235
Antiferromagnets 290
Antiparallel spin state 313
Atomized NdFeB 32

Ball milling 95
Barkhausen noise 175
Bilayers 190
Blocking temperature 113
Bonded magnets 32
Bulk multilayers 139

Cation distribution 377
Cellular phone 158
CeScSi-type 44
Chemical coprecipitation 100
Chemical method 284
Citrate precursor 79
Classical spin models 290
Cluster glass 220
Co 184
Co addition 403
Co_2Z 284
Coercivity 79, 132, 387
Cold rolling 139
Complex permeability 100
Composite ferrite 284
Composite materials 335
Co–Ti substituted barium ferrites 100
Coupling 146
Crystal structure 44, 206

Demagnetizing effects 335
Density-functional theory 235

Devices 387
DFT 11
Dielectric constant 165, 296
Dielectric loss tangent 165, 296
Different orientations and sputtering pressures 369
Differential scanning calorimetry (DSC) 274
Disordered systems 107
Domain wall 327

Effective medium 335
Elastically induced 327
Electrical conductivity 296
Electron transport and magnetic properties 369
Electronic band structure 11
Electron–phonon interaction 306
Energy product 403
Epitaxy 270
Evaporation 387
Exchange bias 190, 239
Exchange interactions 22
Extraordinary Hall effect 306

Fe–Cr–Co–Mo alloys 397
FePt magnets 139
Ferrimagnet 377
Ferrimagnetism 22
Ferrite 79
Ferrites 165
Ferromagnetic properties 11
Ferromagnet–semiconductor multilayer 313
Field cooled coercive field 220
Fine particle 377
Flexural strength 58
Fracture toughness 58, 175

Granular alloys 306

Half metallic ferromagnets 239
Hard magnets 58, 397
Heisenberg model 107
Hematite 51

Heusler compounds 239
Hexagonal ferrite 158
High temperature 58
High-energy milling 377
High-frequency magnetic properties 100
High-T_c superconductors 290

Indium addition 146
Inhomogeneties 195
Inter-layer coupling 184
Interconnects 387
Interdiffusion 190
Intermetallic compounds 44
Intermetallics, 4f–3d 258
Internal radius 119
Interstitial compounds 258
Inverse microemulsion 69
Ir 184
Iron 119
Iron nitride 95
Iron-containing drugs 346
Iron–dextran 346

$La_{0.67}Sr_{0.33}MnO_{3-\delta}$ epitaxial films 369
Liquid membrane 119
Lorentz microscopy 1
Low temperature sintered NiCuZn ferrite 355
Low-temperature sintering 100

Magnetic 151
Magnetic anisotropy 15, 258
Magnetic annealing 146
Magnetic Circular Dichroism 51
Magnetic dilution 220
Magnetic entropy 254
Magnetic latex 69
Magnetic material 284
Magnetic measurement 44
Magnetic particles 113
Magnetic phase separation 195
Magnetic properties 95, 113, 335, 397, 403
Magnetic recording 126, 132

0304-8853/03/$ - see front matter
PII: S0304-8853(03)00054-4

Magnetic refrigerant 254
Magnetic semiconductors 87
Magnetic thin films 387
Magnetically ordered materials 290
Magnetisation reversal 1
Magnetization curves 258
Magnetization process 313
Magnetization reversal 327
Magnetocaloric effect 254
Magnetoresistance 319
Magnetoresistive heads 126
Magnetostriction, Magnetostrictive devices 15
Magnetron sputtering 369
Manganites 195
Mechanical properties 32, 58
Melt spinning 403
Melt spun NdFeB 32
Micro-system magnets 139
Microspheres 119
Microstructure 397
Mn-site substitution 195
Modes 151
Monte Carlo 51
Multidimensional domain wall 327
Multilayers 22, 184

Nanocrystalline 79
Nanostructure 51
Nanostructured magnetic materials 139
$Nd_{10}Fe_{84-x}B_6In_x$ nanocomposite 146
Néel temperature 206
NiCuZn 284
Nitridation 95
Nondestructive test 175
Nonsteady motion 327

Organic magnet 11
Orientation 146

Percolation 335
Permalloy 387
Permalloy elements 1
Permeability 158
Perovskite 319
Perovskite manganite 254
Perpendicular anisotropy 184
Perpendicular magnetic anisotropy 22
Perpendicular magnetic recording 126
Perturbed ferromagnet 220
Plasma jet 119

Quantification 175

Rare earth metals 22
Rare earth orthoferrites 206
Rare-earth transition metal 270
Reciprocity principle 335
Retarded 151

Saturation 87
Shape anisotropy 397
Skew scattering 306
Snoek's product 158
Solitons 290
Spin canting 87, 220
Spin reversal 313
Spin-flop 87
Spinel ferrites 296
Spin–orbit interaction 306
Sputtering 132
Submicron 69
Submicron elements 1
Superexchange interaction 206
Superlattice 151
Superparamagnetism 346
Surface 151
Surface roughness 387

Temperature modulation 274
Thermal decomposition of metal nitrates 355
Thermal stability 95, 190, 377
Thermomagnetometry (TMAG) 274
Thin films 132
Thin magnetic films 270
Thin-films—magnetic 15
Time-dependent degradation 175
Transport properties 195

Ultrasonication 113

Vacancy effect 319
Variational method 107

Weak ferromagnets 327
Wurtz–stannite structure 87

X-ray diffraction 79
X-ray quantitative texture analysis 258
XRD 369